

Cell Cycle Project

30 points

- ❑ You are making a two-sided cell cycle “wheel”
- ❑ It will show the entire cell cycle on the surface of both sides
- ❑ Inside, one side will reveal the phases of mitosis in words, the other in labeled diagrams
- ❑ Use the following directions and your rubric to complete the project

Setting up your wheels

- ❑ The following 4 phases of the cell cycle are already labeled on both of your cover sheets
 - M phase, G₁ phase, S phase, G₂ phase
- ❑ You need to **describe** what is happening in each of those phases
- ❑ **Label INTERPHASE**
- ❑ On the 2-sided “5 piece pie,” one piece is already labeled “M phase”
- ❑ You need to **write what “M” stands for**
- ❑ You also need to **describe what is happening to the cell** during the M phase
- ❑ The other 4 pieces already have the names of the 4 phases of mitosis labeled, and you will **fill them in** according to the directions below

Filling in your wheels

- ❑ Wording (on one side)
 - Under each phase of mitosis, you will describe the main features of that phase
 - Use a bulleted list
 - You need at least **3 important facts** for EACH phase
- ❑ Diagrams (on the other side)
 - Under each phase of mitosis, you will draw an animal cell in that phase
 - **Label** the parts of the cell
- ❑ Color the covers and drawings of cells
 - Also add color other places on your wheels where appropriate
 - Make sure you can still read any writing

Putting your wheels together

- ❑ Cut out each of the cover sheets, removing the piece labeled “M phase”
- ❑ Cut out the outer circle of the 2-sided “5 piece pie”
- ❑ Line up your covers so that the M phase “windows” are together and you can see your labels on both the front and back
- ❑ Staple the covers together on the dashed lines (7 staples around the edge)
- ❑ Insert your 2-sided “5 piece pie” between the two covers
- ❑ When completed, each phase of mitosis should be revealed one at a time through the opening for the M phase on your covers

Note: Your wheels are to be informative, colorful, and neatly done. Use them as a study tool both while you are working and when you are finished.